U.S. DEPARTMENT OF LABOR Occupational Safety and Health Administration

Form Approved OMB No. 44-R1387

MATERIAL SAFETY DATA SHEET

DPM 3214-1

Required under USDL Safety and Health Regulations for Ship Repairing, Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

•	<u> </u>	SECT	ION I			
MANUFACTURER'S NAME ULANO CORPORATION		•	718-643-1770	NO.		
ADDRESS (Number, Street, City, State, and ZIP Co. 255 BUTLER STREET, BROOKL	<i>ie)</i> YN	N.Y.	11	· · ·		
CHEMICAL FAMILY			FORMULA HI-FI DEVELOPER PT.	A		
SECTION	11 -	HAZAR	DOUS INGREDIENTS	··· · · · · · · · · · · · · · · · · ·		
PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	*	TLV (Units)	
PIGMENTS			BASE METAL			
CATALYST			ALLOYS			
VEHICLE			METALLIC COATINGS			
SOLVENTS			FILLER METAL PLUS COATING OR CORE FLUX			
ADDITIVES			OTHERS			
OTHERS NOT APPLICABLE	<u> </u>	<u> </u>	NOT APPLICABLE			
HAZARDOUS MIXTURES	OF	OTHER LIC	DUIDS, SOLIDS, OR GASES	%	TLV (Units)	
NOT APP	LIC	ABLE				
Citric Acid			670 6	Ø		
			(3)			
			6 6 2 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3			
SEC	TIO	N III - F	PHYSICAL DATA			
BOILING POINT (°F.)	T _N T	Α	SPECIFIC GRAVITY (HID=1)	1	542	
VAPOR PRESSURE (mm Hg.)	\neg	.A.	PERCENT, VOLATILE BY VOLUME (%)	1 - •	.A.	
VAPOR DENSITY (AIR=1)	N	.A.	EVAPORATION RATE	N	.A.	
SOLUBILITY IN WATER % by wgt.	6	0	MELTING POINT	15	зос.	
APPEARANCE AND ODOR WHITE ODOR	LES	S GRAN	ULAR, FINE GRANULAR OR POWD	ER		
SECTION IV -	FIR	E AND	EXPLOSION HAZARD DATA	···· '····		
FLASH POINT (Method used) IGNITION POINT 1000-102	000		FLAMMABLE LIMITS min		opt	
EXTINGUISHING MEDIA	<u>, , , , , , , , , , , , , , , , , , , </u>	.•	g/cu ft 8	<u></u>	-65	
SPECIAL FIRE FIGHTING PROCEDURES	-		· · · · · · · · · · · · · · · · · · ·	-		
UNUSUAL FIRE AND EXPLOSION HAZARDS WEAK (BUR. OF MINES RELATIVE EXPLOSION						
HAZARD RATING.)						
						

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(Continued on reverse side)

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SECTION V - HEALTH HAZARD DATA
THRESHOLD LIMIT VALUE NOT ESTABLISHE
EFFECTS OF OVEREXPOSURAS MILD ORGANIC ACIDS, MAY CAUSE SYMPTOMS OF
RESPIRATORY IRRITATION.
EMERGENCY AND FIRST AID PROCEDURES
FLUSH SKIN CONTACT WITH WATER AND FLUSH EYE CONTACT
IMMEDIATELY WITH PHYSIOLOGICAL SALINE OR WATER GET
MEDICAL CARE FOR EYES

	· · · <u>-</u>		SECTIO	NVI - RI	EACTIVITY DATA
STABILITY	UNS	TABLE		CONDITION	S TO AVOID
	STA	BLE	X		• •
INCOMPATABIL HAZARDOUS D			USUAI	L INCOMP	PATIBILITIES OF ORGANIC ACIDS
HAZARDOUS		MAY OCCU	₹		CONDITIONS TO AVOID
POLYMERIZATION WILL NOT OCCUI		CCUR	Х	N.A.	

•
SECTION VII - SPILL OR LEAK PROCEDURES
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED FLUSH WITH WATER OR SWEEP AND SHOVEL
WASTE DISPOSAL METHOD CAN BE FLUSHED AWAY WITH WATER OR DISPOSED IN NORMAL
SOLIDS DISPOSAL SYSTEMS

	SECTION VIII - SP	ECIAL	PROTECTION IN	FORMATION
RESPIRATORY PRO	OTECTION (Specify type)	ROVED	NUISANCE MA	SK
VENTILATION	SATISFACTORY			SPECIAL
	MECHANICAL (General)	. ,1		OTHER
PROTEGINE SNO	RMALLY REQUIRED		SAFETY SP	PECTACLES
OTHER PROTECTI	VE EQUIPMENT NONE	, ,		

SECTION IX - SPECIAL PRECAUTIONS								
PRECAUTIONS TO BE TA	KEN IN HANDLING AND STORING	N.A.	4.5					
OTHER PRECAUTIONS	NONE							

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SECTION I							
IANUFACTURER'S NAME			NO				
ULANO CORPORATION 718 642 177				•			
ADDRESS (Number, Street, City, State, and ZIP Code) 718-643-1770 255 BUTLER STREET, BROOKLYN, N.Y. 11217							
CHEMICAL NAME AND SYNONYMS TRADE NAME AND SYNONYMS							
CHEMICAL FAMILY			FORMULA HI-FI DEVELOPER PART		<u>-</u> -		
SECTION	11 -	HAZAF	RDOUS INGREDIENTS				
PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)		
PIGMENTS		N.A	BASE METAL		ΝA		
CATALYST		N.A.	ALLOYS		ΝA		
VEHICLE		NA	METALLIC COATINGS		NA		
SOLVENTS		NΑ	FILLER METAL PLUS COATING OR CORE FLUX		N A		
ADDITIVES		NΑ	OTHERS		NA		
OTHERS		ΝA	611E1/12		N A		
HAZARDOUS MIXTURES	OF (DUIDS, SOLIDS, OF CASES	%	TLV (Units)		
NOT APPLICABLE			(2) (2)		(0		
Sodium perborate tetrahydrate 8- 12 00							
		- y	1 2 2	700			
SEC	LIOI	VIII - P	HYSICAL DATA				
BOILING POINT (°F.)	DEC	OMPOSES	SPECIFIC GRAVITY (H2O=1) BULK DENSITY	0.6	9-0.87		
VAPOR PRESSURE (mm Hg.)	N	IA	PERCENT, VOLATILE BY VOLUME (%)	10			
VAPOR DENSITY (AIR=1)	l N	IA	EVAPORATION RATE	NA			
SOLUBILITY IN WATER	MOD	ERATE					
APPEARANCE AND ODOR WHITE CRYSTALL	INE	SOLID	WITH NO ODOR	L			
SECTION IV -	FIRI	F AND F	EXPLOSION HAZARD DATA				
FLASH POINT NAC (NON-PLAMMABLE)			FLAMMABLE LIMITS Lei	T	Uel		
EXTINGUISHING MEDIA		TN LUIT	NA TUTO MATERIAL TO INVOLVER				
USE WATER TO FIGHT FIRES IN WHICH THIS MATERIAL IS INVOLVED. SPECIAL FIRE FIGHTING PROCEDURES							
NA NA							
UNUSUAL FIRE AND EXPLOSION HAZARDS							
·							
			·		1		

SECTION V - HEALTH HAZARD DATA
THRESHOLD LIMIT VALUE UNKNOWN EFFECTS OF OVEREXPOSURE
DRYING AND MINOR IRRITATION ON PROLONGED SKIN CONTACT! MORE IRRITATING TO
EYES AND MUCOUS MEMBRANE EMERGENCY AND FIRST AID PROCEDURES
WASH PROMPTLY IN CASE OF ACCIDENTAL CONTACT WITH EYES. CALL PHYSICIAN.
SKIN - WASH WITH WATER.
INHALATION - REMOVE FROM EXPOSURE.

		SECTION	ON VI - RI	EACTIVITY DATA			
STABILITY	UNSTABLE CONDITIONS TO AVOID						
	STABLE	. х					
INCOMPATABILITY HEAVY	(Materials to avoid) METALS, ORGAI	VIC MAT	ERIALS. W	ATER			
HAZARDOUS DECO	MPOSITION PRODU	CTS V PEROX	(IDE.				
HAZARDOUS	MAY OCCUI			CONDITIONS TO AVOID			
POLYMERIZATION	WILL NOT	CCUR	Х				

SECTION VII - SPILL OR LEAK PROCEDURES
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED WASH AWAY WITH WATER.
WASTE DISPOSAL METHOD
DILUTE WITH LARGE QUANTITIES OF WATER AND FLUSH INTO SEWER.

SECTION VIII - SPECIAL PROTECTION INFORMATION						
RESPIRATORY PRO	ATOR IF DUSTY CONDITIONS EXIST					
USE RESPIRA	ATOR IF DUSTY CONDITIONS EXIST					
VENTILATION	LOCAL EXHAUST		SPECIAL			
	MAINTAIN ADEQUATE VENTILAT	ION	<u>l na</u>			
	MECHANICAL (General)		OTHER			
DDOTESTIVE STATE	IUNKNOWN		NA			
PROTECTIVE GLOV		EYE PROTECTION				
- NON-ABSORBEN	T FOR HANDLING LARGE QUANTITI	ES GOGGLES	FOR HANDLING LARGE QUANTITIES			
NA NA	E EQUIPMENT ,					

SECTION IX - SPECIAL PRECAUTIONS	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING STORE IN COOL, DRY AREA. AVOID HIGH HUMIDITIES AND TEMPERATURE ABOVE 90°F.	
TO PREVENT LOSS OF OXYGEN AND PREVENT CAKING.	
NA.	

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